



MicW i236L Professional Class 2 Microphone User Manual

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MicW®

I236L
User's Manual



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CALIBRATION REPORT

Product Information	Calibration Data	TI
Model No: i236L Serial No: Description: 1/4" Free Field Digital Microphone with Lightning Connector	Sensitivity: dBFS Noise Lab Correction: dB Technician: Date: yyyy/mm/dd	Te H P

Notes:

1. The reference microphone for calibration is traceable from the National Institute of Metrology(NIM).
2. Calibration is performed in compliance with ISO9001:2008.
3. Measurement uncertainty is +/-0.30dB (95% confidence level with a coverage factor of2).
4. Fervency response is measured by a comparison method "BSWA-III-RD01-0013".
5. Sound Level meter Class 2(IEC61672-3) was certified with Noise Lab App by Scanted USA and NIM Lab.

INTRODUCTION

Welcome to the MicW i-Series of professional microphones. MicW has been designing and manufacturing high quality microphones for testing, measuring and studio recording for over 10 years. The expertise in diaphragm technology allows MicW to provide professional products for audio applications.

SAFETY INSTRUCTION

The microphone come with a pre-polarized capsule, which is tested in extreme temperatures and humid environments for more than 24 hours. It is designed to operate from -20°C to 50°C and humidity up to 95%.

Power Supply

The i236L does not require an additional battery for power.

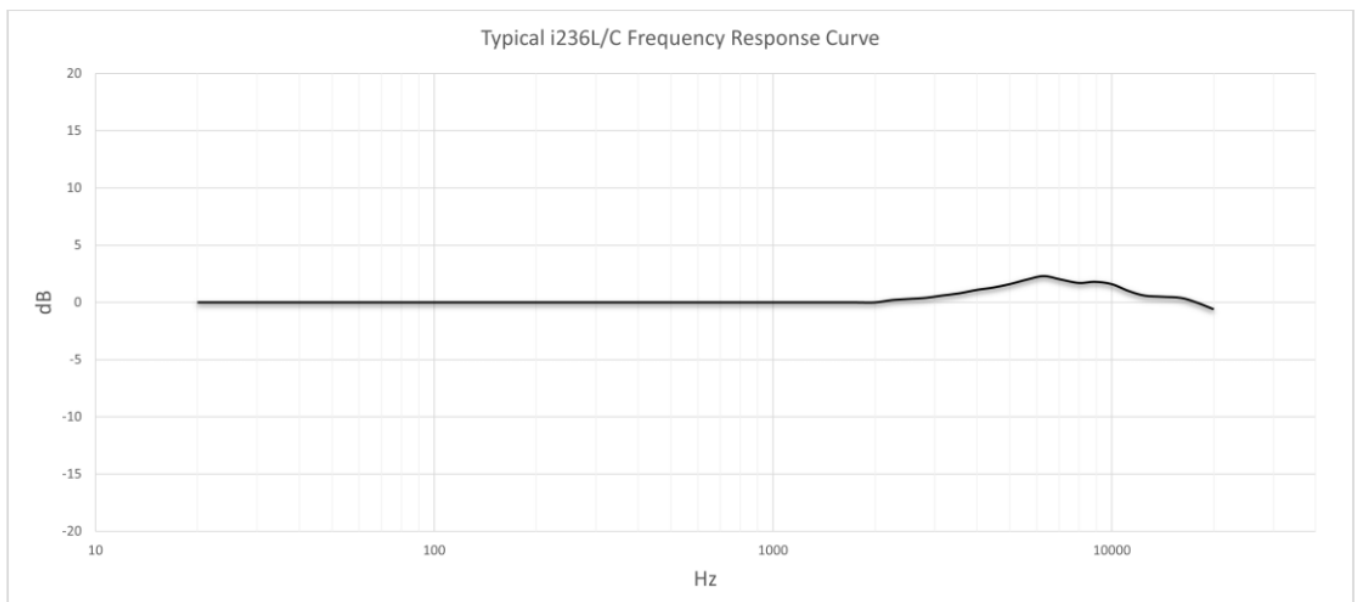


APPLICATIONS

Macaw i236L is 1/2" repolarized free-field digital measurement microphone. It has omni-directional pattern. It is an ideal choice for iPhone, iPad mobile (iOS Lightning or Type C connectors) devices as external microphone. The i236L is developed based on BSWA MPA436 array microphone which is widely used in aerospace and automotive industry.

FREQUENCY REPONSE

Typical Frequency Response.



Frequency (Hz)	FRes (dB)	Frequency Hz	FRes (dB)	Frequency (Hz)	FRes (dB)
16	0.3	250	-0.1	4000	0.1
32	0.7	500	0.0	8000	1.4
64	0.5	1000	0.0	16000	0.2
125	0.2	2000	0.0	20000	-3.7

MICROPHONE INSTALLATION

Simply plug the i236L into your lightning connector of the iPhone, iPad device.



i236L matched with NoiseLab software on iPhone 14 Pro.

WARRANTY POLICY

MicW Audio warrants that its Products will be free from defects in materials and workmanship for one (1) year from the date of purchase by the original purchaser.

CE MARKING

CE The MicW i236L microphones conform with the relevant CE mark directives approved by the European Commission.

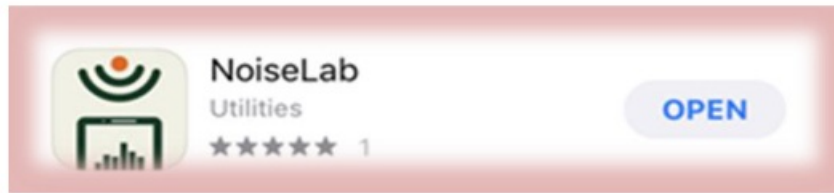
SPECIFICAITONS

Microphone i236L	
Type	Electret Condenser
Capsule Diameter(front)	13.2mm
Capsule Diameter(back)	10.0mm
Total Length	46.6 mm
Principle of Operation	Free-field
Directivity	Omni
Sensitivity	– 17.19 ± 3.0 dBFS
The analog sensitivity of the capsule	– 28.0 dB re 1V/Pa, or 39.8mV/Pa
Correction Factor	-5.11 ±3.0 dB tested with Noise Lab APP in MID Range
Equivalent Noise Level	23.0 dB(A)
Upper Dynamic Limit	119.0 dB
Frequency Range	20~20,000Hz (complied with IEC 61672 Class 2 requirements at reference conditions)
T.H.D	< 3% at 119dB SPL
Operating Temperature	-20°C ~ 50°C
Power Source	Plug and Play
Polarization Voltage	0 V
Weight	13.9g
Connector	Lightning Connector

PACKING LIST

- One piece of i236L microphone
- One windscreen for i236L microphone
- No printed user manual. Please visit <http://manual.bswa.com.cn> for the product information

SOUND LEVEL METER APPLICATION



Requirements:

- iOS version 10.0 or higher
- i236L microphone
- Noise Lab App

STEP 1: Search "Noise Lab" in App store on your iOS device and install the app.

STEP 2: Plug i236L into the iPhone, iPad, then launch Noise Lab

STEP 3: Go to the Calibration menu and change the Correction according to the **CALIBRATION REPORT**. Or calibrate the system with a standard microphone calibrator.
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Macaw microphones

Product: features and specifications are subject to change without notice




i236L

Professional Class 2 Microphone

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Documents / Resources

	<p>MicW i236L Professional Class 2 Microphone [pdf] User Manual i236L, i236C, i236L Professional Class 2 Microphone, Professional Class 2 Microphone, Class 2 Microphone, Microphone</p>
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References

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